

DEPARTMENT OF THE ARMY
Omaha District, Corps of Engineers
106 South 15th Street
Omaha, Nebraska 68102-1618

:NOTICE: Failure to acknowledge : Solicitation No. DACA45 02 B 0011
:all amendments may cause rejec- :
:tion of the bid. See FAR : Date of Issue: 21 OCT 2002
:52.214-3 of Section 00100 : **New Date of Opening: 10 DEC 2002**

Amendment No. 0001
25 November 2002

SUBJECT: Amendment No. 0001 to Specifications and Drawings for Construction of
FY 03 DINING FACILITY, PN 054511, FORT CARSON, COLORADO.
Solicitation No. DACA45 02 B 0011.

TO: Prospective Bidders and Others Concerned

1. The specifications and drawings for subject project are hereby modified
as follows (revise all specification indices, attachment lists, and drawing
indices accordingly).

a. Specifications. (Descriptive Changes.)

(1) Page 00010-1, delete date and time of bid opening shown and
substitute "10 DEC 2002" at "1300".

(2) Section 07416, Page 8, paragraph 1.5, under SD-04 Samples,
delete submittal item and description for "Subpurlins".

(3) Section 07416, Page 9, paragraph 1.5, under SD-06 Test
Reports, line 2 from top of page, delete "/subpurlins"; Also, under SD-07
Certificates, item a. for submittal item "Structural Standing Seam Metal Roof
System", line 3, delete "subpurlins,".

(4) Section 07416, Page 12, paragraph 2.4.1, line 2 and 3, delete
"gage and yield strength of the structural purlins or subpurlins".

(5) Section 07416, Page 13, delete paragraph 2.5 in its entirety.

(6) Section 07416, Page 16, delete paragraph 3.1.2 in its
entirety.

(7) Section 15400, Page 21, paragraph 2.6.2, lines 5 and 6 delete
"Grate shall be easily lifted out for cleaning."

b. Specifications (New and/or Revised and Reissued). Delete and
substitute or add specification pages as noted below. The substituted pages are
revised and reissued with this amendment.

Pages Deleted

Pages Substituted or Added

Section 10440, Pages 1 thru 6

c. Drawings (Not Reissued). The following drawings are revised as indicated below with latest revision date of 25 November 2002. These drawings are not reissued with this amendment. The drawings for this project are broken into three (3) volumes: Volume 1A (Site Work and Utilities, Dwg. Code F722-10-03) and Volumes 1 and 2 (Building, Dwg. Code F722-10-04).

(1) **Volume 1A, Site Work and Utilities, Dwg. F722-10-03.**

- (a) Cover Sheet, delete "ENLISTED BARRACKS DINING FACILITY" and substitute "FY 03 DINING FACILITY"; Also, below "VOLUME 1A", insert: "CIVIL, LANDSCAPE, GEOTECH, ENVIRONMENTAL AND SITE ELECTRICAL".
- (b) Sheet D2.01, Index, add the following note the sheet:

"GENERAL NOTE:

FOR BUILDING PORTION OF PROJECT, SEE DWG. F722-10-04, VOLUMES 1 AND 2."

(2) **Volumes 1 and 2, Building, Dwg. F722-10-04.**

- (a) All sheets, delete note reading "100% SUBMITTAL (RTA)" and from Title Blocks, delete Contract No. shown.
- (b) Volume 1 of 2 Cover Sheet, delete note reading "CIVIL, LANDSCAPE, GEOTECH, ENVIRONMENTAL AND SITE ELECTRICAL,"; Also delete note reading "27 JUNE 2002" and substitute "ADVERTISEMENT
OCTOBER 2002".
- (c) Sheet G02 (Volumes 1 and 2), delete sheet numbers and titles listed for Civil, Landscape, Geotech, Environmental and Site Electrical, and substitute the following note under each heading: "SEE VOLUME 1A (Site Work and Utilities), DWG. F722-10-03".
- (d) Volume 1, Sheet A1102, revise floor finishes for Rooms 008, 013, 019 and 059 to agree with floor finish indicated on Sheet A801, Room Finish Schedule. All rooms listed should be sealed concrete (008, 013, 019, 059).
- (e) Volume 2 of 2 Cover Sheet, delete "27 JUNE 2002" and substitute "ADVERTISEMENT
OCTOBER 2002".
- (f) Volume 2 of 2, Sheet P501, Fixture P-20 FLOOR DRAIN, add "F. GRATES SHALL BE SECURED WITH VANDALPROOF SCREWS."; Fixture P-21 FLOOR DRAIN, add "G. GRATES SHALL BE SECURED WITH VANDALPROOF SCREWS."; and Fixture P-22 FLOOR SINK, add "I. GRATES SHALL BE SECURED WITH VANDALPROOF SCREWS."

d. Drawings (Reissued). The following drawing is revised with latest revision date of 25 November 2002, and reissued with this amendment.

(1) **Volume 1 (Building), Dwg. F722-10-04, Sheet A302.**

e. Drawings (New). The following new drawing dated 25 November 2002 is hereby added to the contract drawings and is issued with this amendment.

(1) Volume 1 (Building), Dwg. F722-10-04, Sheet SD01.

f. Revisions to Drawing Issued with Amendment.

(1) Sheet A302 referenced above, Revisions block, indicate Revision "1", "General Revisions by Amendment No. 0001" and dated "25 Nov 2002".

(2) Sheet SD01 referenced above, Revisions block, indicate Revision "1", "New Drawing added by Amendment No. 0001" and dated "25 Nov 2002".

2. This amendment is a part of the bidding papers and its receipt shall be acknowledged on the Standard Form 1442. All other conditions and requirements of the specifications remain unchanged. If the bids have been mailed prior to receiving this amendment, you will notify the office where bids are opened, in the specified manner, immediately of its receipt and of any changes in your bid occasioned thereby.

a. Hand-Carried Bids shall be delivered to the U.S. Army Corps of Engineers, Omaha District, Contracting Division (Room 301), 106 South 15th Street, Omaha, Nebraska 68102-1618.

b. Mailed Bids shall be addressed as noted in Item 8 on Page 00010-1 of Standard Form 1442.

3. Bids will be received until 1:00 p.m., local time at place of bid opening, 10 DEC 2002.

Attachments:

Spec Pages listed in 1.b. above
Dwgs. listed in 1.d. and 1.e. above

U.S. Army Engineer District, Omaha
Corps of Engineers
106 South 15th Street
Omaha, Nebraska 68102-1618

25 November 2002
DRL/4547

SECTION TABLE OF CONTENTS

DIVISION 10 - SPECIALTIES

SECTION 10440

INTERIOR SIGNAGE

06/01

PART 1 GENERAL

- 1.1 REFERENCES
- 1.2 SUBMITTALS
- 1.3 GENERAL
 - 1.3.1 Character Proportions and Heights
 - 1.3.2 Raised and Brailled Characters and Pictorial Symbol Signs (Pictograms)
- 1.4 QUALIFICATIONS
- 1.5 DELIVERY AND STORAGE

PART 2 PRODUCTS

- 2.1 ROOM IDENTIFICATION/DIRECTIONAL SIGNAGE SYSTEM
 - 2.1.1 Standard Room Signs
 - 2.1.2 Changeable Message Strip Signs
 - 2.1.2.1 Paper Inserts
 - 2.1.3 Type of Mounting For Signs
 - 2.1.4 Graphics
- 2.2 ALUMINUM ALLOY PRODUCTS
- 2.3 FABRICATION AND MANUFACTURE
 - 2.3.1 Factory Workmanship
 - 2.3.2 Dissimilar Materials
- 2.4 COLOR, FINISH, AND CONTRAST

PART 3 EXECUTION

- 3.1 INSTALLATION
 - 3.1.1 Anchorage
 - 3.1.2 Protection and Cleaning

-- End of Section Table of Contents --

SECTION 10440

INTERIOR SIGNAGE

06/01

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

ALUMINUM ASSOCIATION (AA)

AA PK-1 (1999) Registration Record of Aluminum Association Alloy Designations and Chemical Composition Limits for Aluminum Alloys in the Form of Castings and Ingot

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

ANSI Z97.1 (1984; R 1994) Safety Performance Specifications and Methods of Test for Safety Glazing Materials Used in Buildings

ASTM INTERNATIONAL (ASTM)

ASTM B 209M (2000) Aluminum and Aluminum-Alloy Sheet and Plate (Metric)

ASTM B 221M (2000) Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric)

AMERICAN WELDING SOCIETY (AWS)

AWS D1.2 (1997) Structural Welding Code - Aluminum

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Detail Drawings; G-RE

Drawings showing elevations of each type of sign, dimensions, details and methods of mounting or anchoring, shape and thickness of materials, and details of construction. A schedule showing the location, each sign type, and message shall be included.

SD-03 Product Data

Installation; G-RE

Manufacturer's descriptive data, catalogs cuts, installation and cleaning instructions.

SD-04 Samples

Interior Signage; G-RE

One sample of each of the following sign types showing typical quality and workmanship. The samples may be installed in the work, provided each sample is identified and location recorded.

- a. Door identification sign.

Two samples of manufacturer's standard color chips for each material requiring color selection.

SD-10 Operation and Maintenance Data

Approved Manufacturer's Instructions
Protection and Cleaning

Six copies of operating instructions outlining the step-by-step procedures required for system operation shall be provided. The instructions shall include simplified diagrams for the system as installed. Six copies of maintenance instructions listing routine procedures, repairs, and guides shall be provided. The instructions shall include the manufacturer's name, model number, service manual, parts list, and brief description of all equipment and their basic operating features. Each set shall be permanently bound and shall have a hard cover. The following identification shall be inscribed on the covers: the words "OPERATING AND MAINTENANCE INSTRUCTIONS", name and location of the facility, name of the Contractor, and contract number.

1.3 GENERAL

Interior signage shall be of the design, detail, sizes, types, and message content shown on the drawings, shall conform to the requirements specified, and shall be provided at the locations indicated. Signs shall be complete with lettering, framing as detailed, and related components for a complete installation. Recyclable materials shall conform to EPA requirements in accordance with Section 01670 RECYCLED / RECOVERED MATERIALS.

1.3.1 Character Proportions and Heights

Letters and numbers on indicated signs in handicapped-accessible buildings, which do not designate permanent rooms or spaces, shall have a width-to-height ratio between 3:5 and 1:1 and a stroke-width-to-height ratio between 1:5 and 1:10. Characters and numbers on indicated signs shall be sized according to the viewing distance from which they are to be read. The minimum height is measured using an upper case letter "X". Lower case characters are permitted. Suspended or projected overhead signs shall have a minimum character height of 75 mm .

1.3.2 Raised and Brailled Characters and Pictorial Symbol Signs (Pictograms)

Letters and numbers on indicated signs which designate permanent rooms and spaces in handicapped-accessible buildings shall be raised 0.8 mm upper case, sans serif or simple serif type and shall be accompanied with Grade 2 Braille. Raised characters shall be at least 16 mm in height, but no higher than 50 mm. Pictograms shall be accompanied by the equivalent verbal description placed directly below the pictogram. The border dimension of the pictogram shall be 152 mm minimum in height. Indicated accessible facilities shall use the international symbol of accessibility.

1.4 QUALIFICATIONS

Signs, plaques, and dimensional letters shall be the standard product of a manufacturer regularly engaged in the manufacture of such products and shall essentially duplicate signs that have been in satisfactory use at least 2 years prior to bid opening.

1.5 DELIVERY AND STORAGE

Materials shall be delivered to the jobsite in manufacturer's original packaging and stored in a clean, dry area in accordance with manufacturer's instructions.

PART 2 PRODUCTS

2.1 ROOM IDENTIFICATION/DIRECTIONAL SIGNAGE SYSTEM

Signs shall be fabricated of Type ES/MP laminated thermosetting plastic suitable for engraving or acrylic plastic conforming to ANSI Z97.1.

2.1.1 Standard Room Signs

Signs shall consist of gloss finish acrylic plastic. Units shall be frameless. Corners of signs shall be squared.

2.1.2 Changeable Message Strip Signs

Changeable message strip signs shall consist of cast acrylic face with message slots and associated end caps, as detailed, for insertion of changeable message strips. Size of signs shall be as shown on the drawings. Individual message strips to permit removal, change, and reinsertion shall be provided as detailed. Corners of signs shall be squared.

2.1.2.1 Paper Inserts

Paper inserts shall be composed of colored paper of sufficient weight and composition to support a laser printing process. Paper color shall match permanent typography color. Typography color for inserts shall be black. Paper shall be diecut or perforated to match holder size. Letter size shall be as shown on the drawings and initial typography content shall be provided as indicated in the signage schedule.

2.1.3 Type of Mounting For Signs

Extruded aluminum brackets, mounted as shown, shall be furnished for hanging, projecting, and double-sided signs. Mounting for framed, hanging, and projecting signs shall be by mechanical fasteners. Surface mounted signs shall be provided with 1.6 mm thick vinyl foam tape or countersunk mounting holes in plaques and mounting screws. Sign inserts shall be

provided with 1.6 mm thick foam tape.

2.1.4 Graphics

Signage graphics for modular identification/directional signs shall conform to the following:

Acrylic letters 3 mm thick and chemically welded to 3.2 mm thick acrylic backup sheet. All graphics and typography for signage listed as permanent shall be fabricated as subsurface.

Copy of signage type A2 changeable paper inserts shall be laser printed. Note that personnel names as shown on the drawings are fictitious. Actual names for these message strips shall be obtained from the user. Initial copy shall be provided by the contractor and shall be reproducible using the manufacturer's software package. Contractor shall supply one complete signage manufacturer's software package in user selected format (Macintosh, IBM PC, or IBM/Compatible PC type computer) enabling end user to produce replacement graphics on insert paper using user's laser printer.

2.2 ALUMINUM ALLOY PRODUCTS

Aluminum extrusions shall be at least 3 mm thick, and aluminum plate or sheet shall be at least 1.3 mm thick. Extrusions shall conform to ASTM B 221M ; plate and sheet shall conform to ASTM B 209M . Where anodic coatings are specified, alloy shall conform to AA PK-1 alloy designation 514.0. Exposed anodized aluminum finishes shall be as shown. Welding for aluminum products shall conform to AWS D1.2.

2.3 FABRICATION AND MANUFACTURE

2.3.1 Factory Workmanship

Holes for bolts and screws shall be drilled or punched. Drilling and punching shall produce clean, true lines and surfaces. Exposed surfaces of work shall have a smooth finish and exposed riveting shall be flush. Fastenings shall be concealed where practicable.

2.3.2 Dissimilar Materials

Where dissimilar metals are in contact, the surfaces will be protected to prevent galvanic or corrosive action.

2.4 COLOR, FINISH, AND CONTRAST

Colors shall be as specified below . In buildings required to be handicapped-accessible, the characters and background of signs shall be eggshell, matte, or other non-glare finish. Characters and symbols shall contrast with their background - either light characters on a dark background or dark characters on a light background.

Background color shall be dark green matching P-6, Pittsburgh Paints, Dark Green Velvet 503-7.

Letter color shall be white.

PART 3 EXECUTION

3.1 INSTALLATION

Signs shall be installed in accordance with approved manufacturer's instructions at locations shown on the detail drawings. Signs shall be installed plumb and true at mounting heights indicated, and by method shown or specified. Required blocking shall be installed as detailed. Signs which designate permanent rooms and spaces in handicapped-accessible buildings shall be installed on the wall adjacent to the latch side of the door. Where there is no wall space to the latch side of the door, including at double leaf doors, signs shall be placed on the nearest adjacent wall. Mounting location for such signage shall be so that a person may approach within 75 mm of signage without encountering protruding objects or standing within the swing of a door. Signs on doors or other surfaces shall not be installed until finishes on such surfaces have been installed. Signs installed on glass surfaces shall be installed with matching blank back-up plates in accordance with manufacturer's instructions.

3.1.1 Anchorage

Anchorage shall be in accordance with approved manufacturer's instructions.

Anchorage not otherwise specified or shown shall include slotted inserts, expansion shields, and powder-driven fasteners when approved for concrete; toggle bolts and through bolts for masonry; machine carriage bolts for steel; lag bolts and screws for wood. Exposed anchor and fastener materials shall be compatible with metal to which applied and shall have matching color and finish. Where recommended by signage manufacturer, foam tape pads may be used for anchorage. Foam tape pads shall be minimum 2 mm thick closed cell vinyl foam with adhesive backing. Adhesive shall be transparent, long aging, high tech formulation on two sides of the vinyl foam. Adhesive surfaces shall be protected with a 0.13 mm green flatstock treated with silicone. Foam pads shall be sized for the signage as per signage manufacturer's recommendations. Signs mounted to painted gypsum board surfaces shall be removable for painting maintenance. Signs mounted to lay-in ceiling grids shall be mounted with clip connections to ceiling tees.

3.1.2 Protection and Cleaning

The work shall be protected against damage during construction. Hardware and electrical equipment shall be adjusted for proper operation. Glass, frames, and other sign surfaces shall be cleaned in accordance with the manufacturer's approved instructions.

-- End of Section --